

FIG. 1

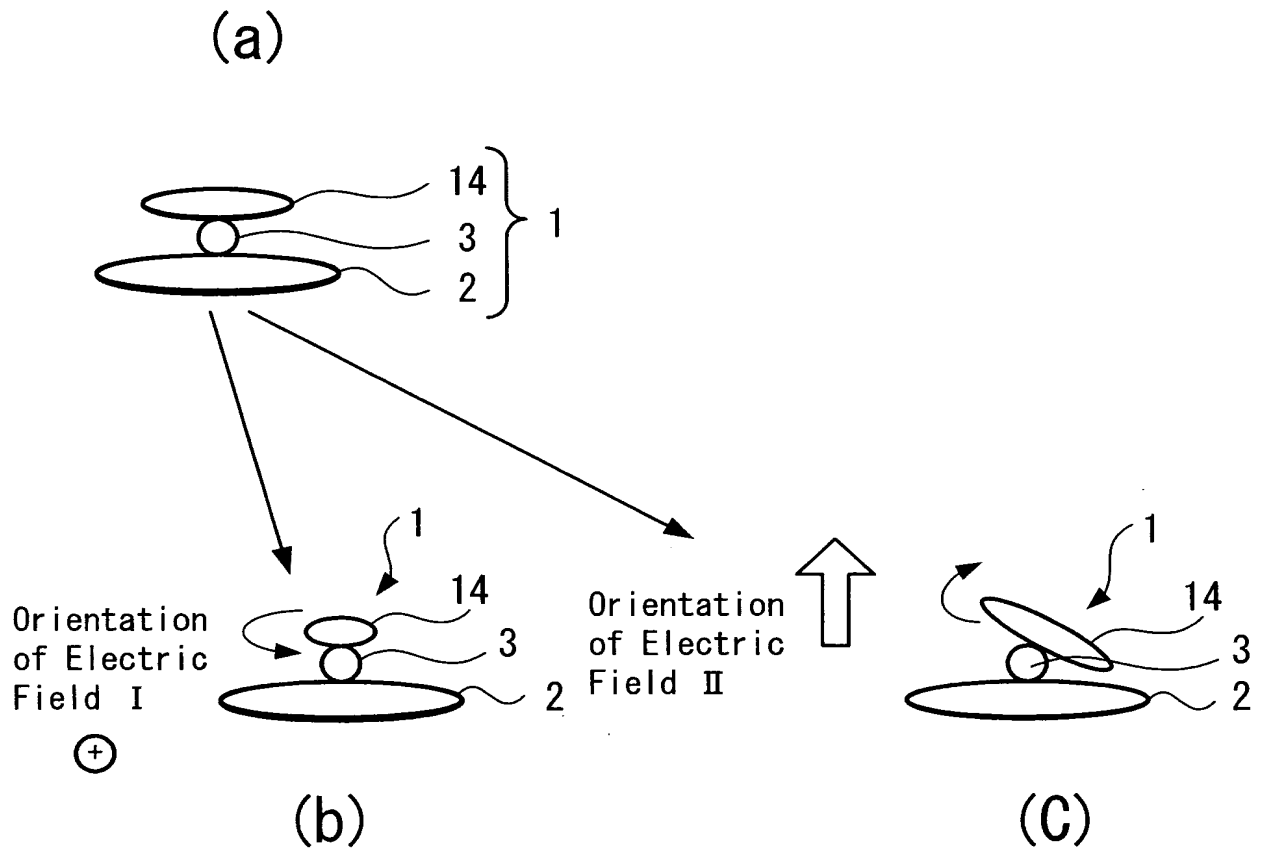


FIG. 2A

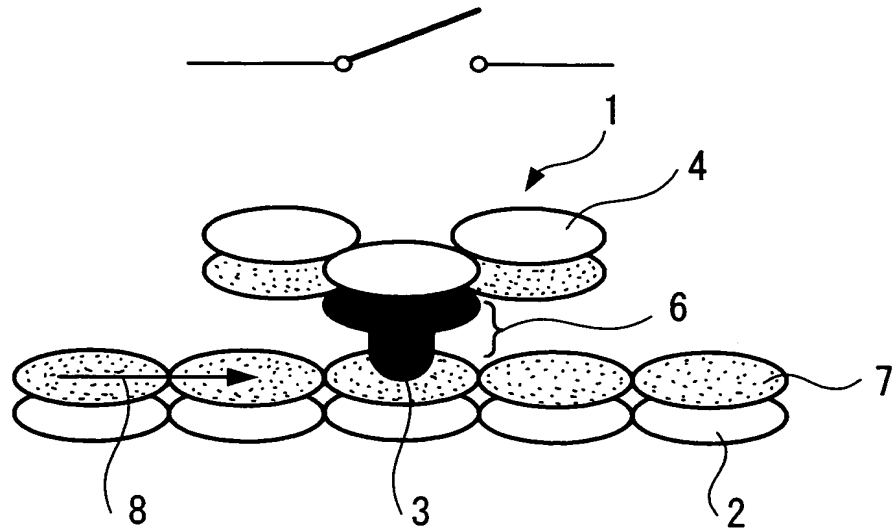


FIG. 2B

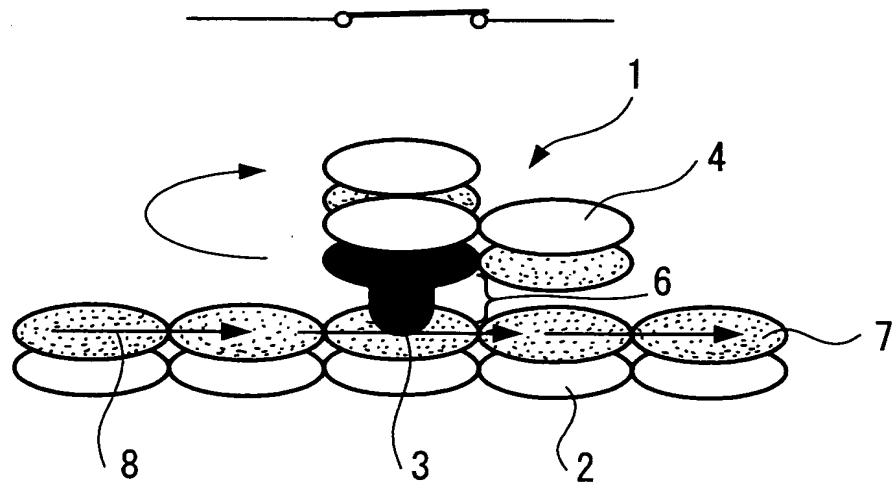


FIG. 3A

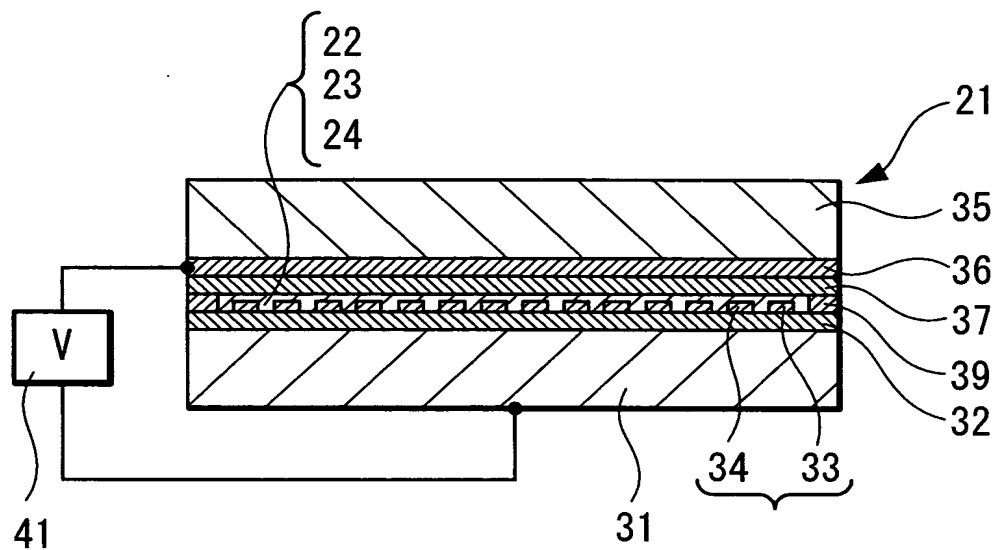


FIG. 3B

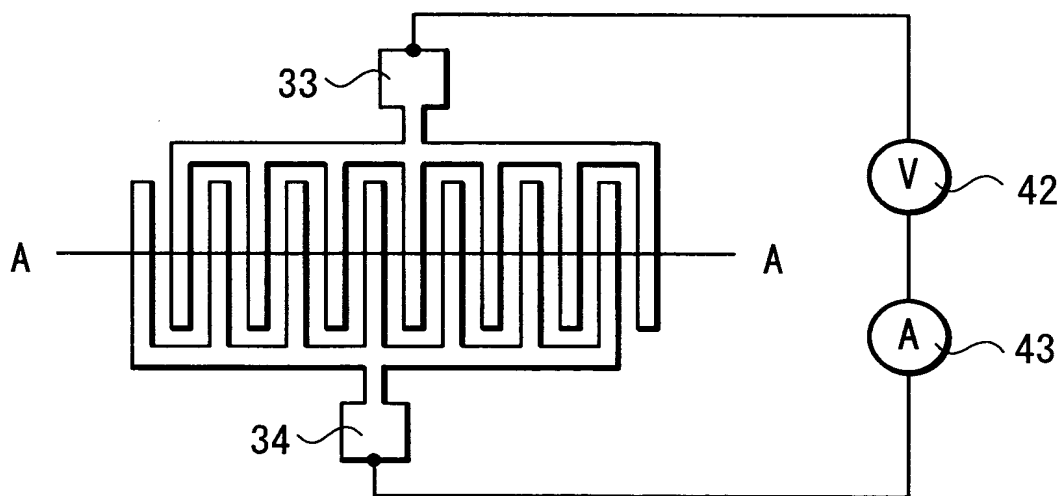


FIG. 4

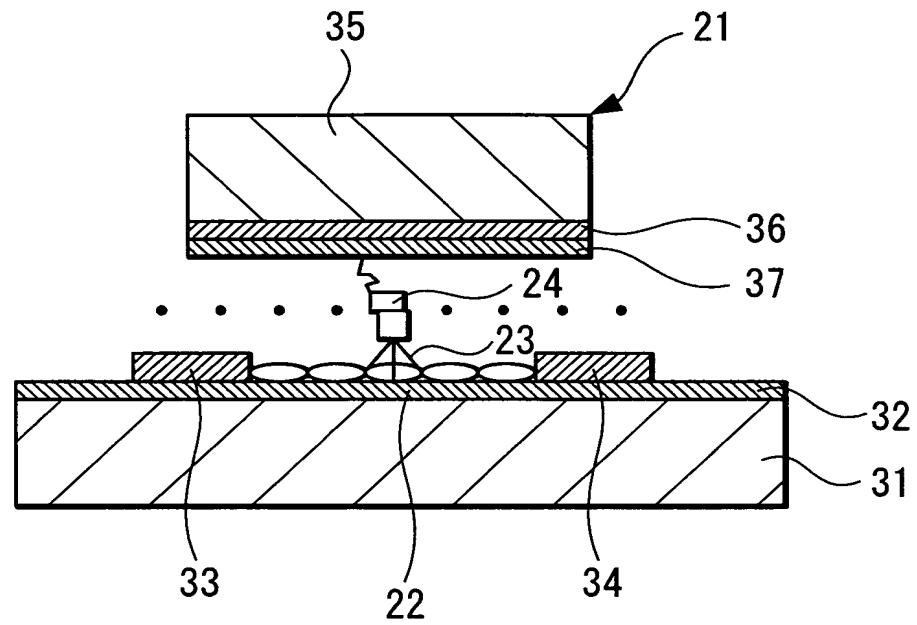


FIG. 5

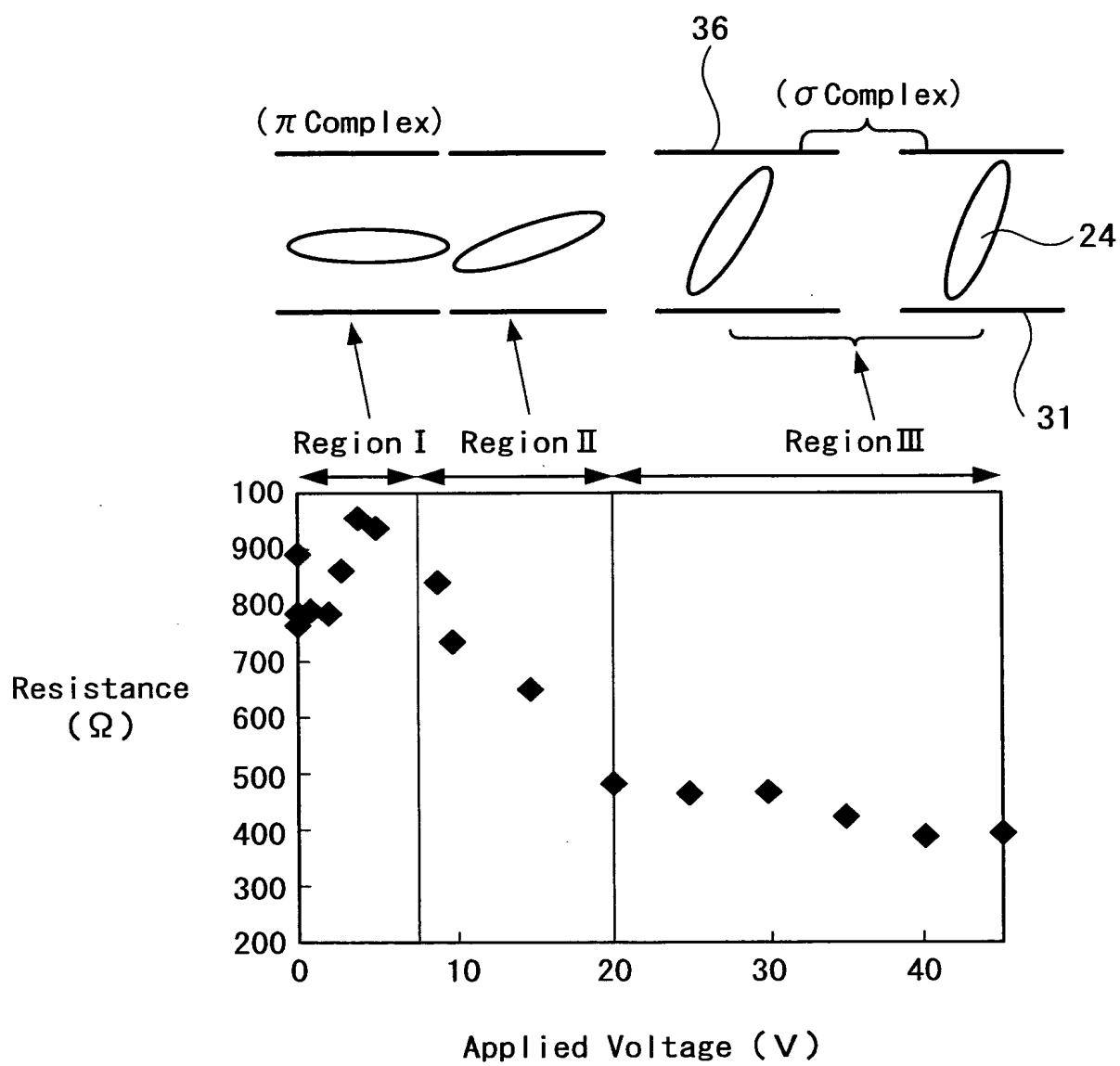


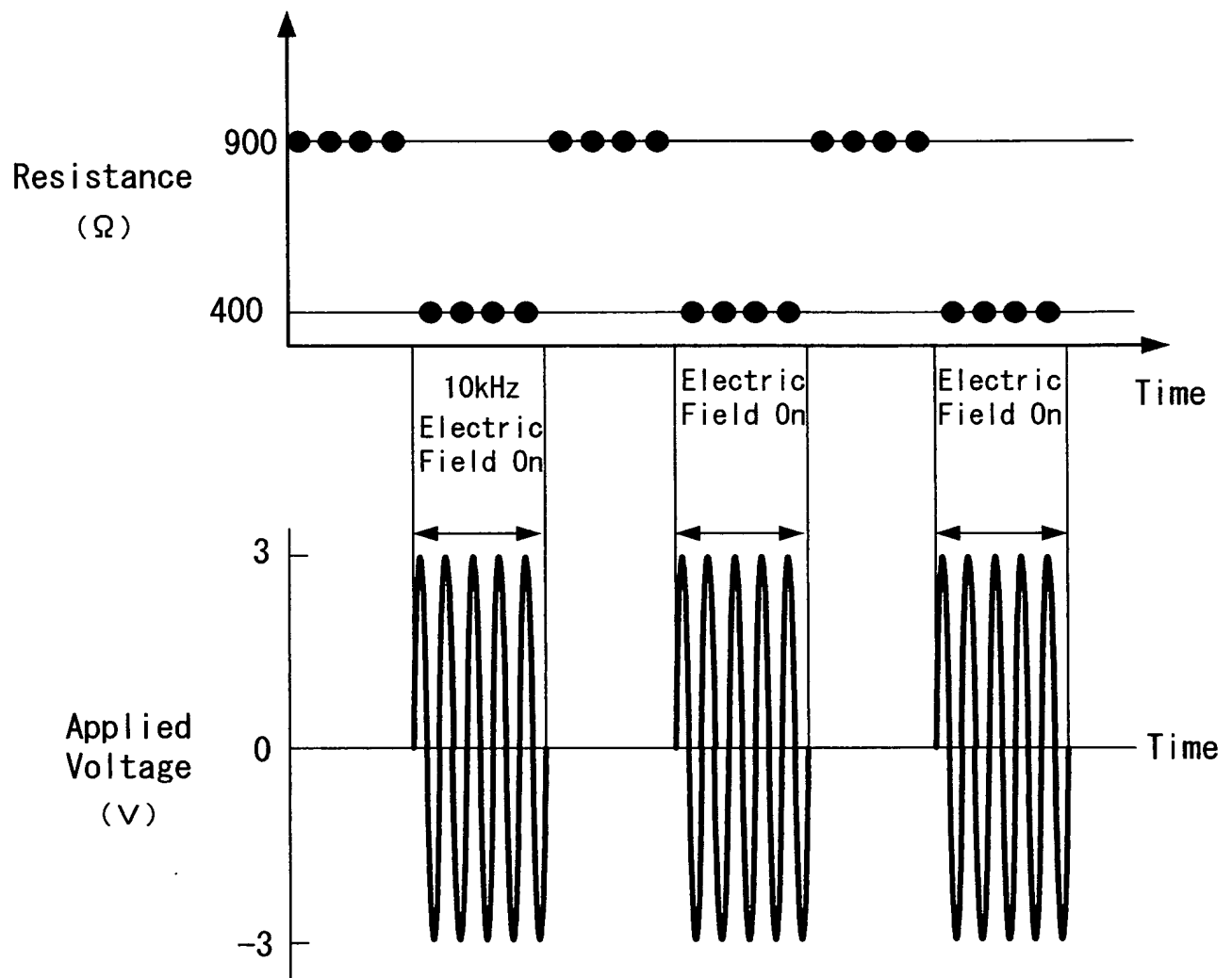
FIG. 6

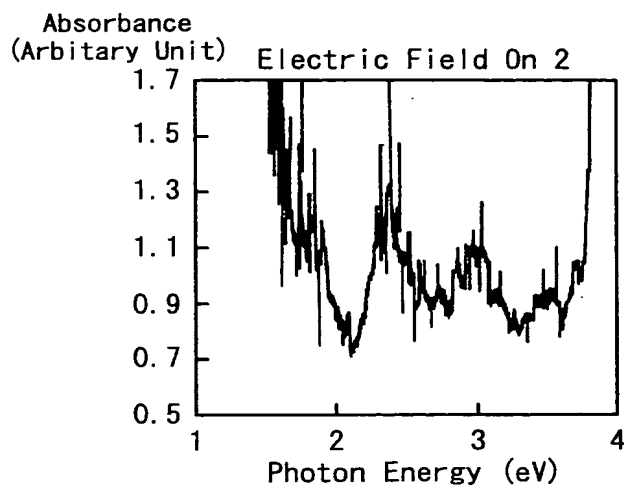
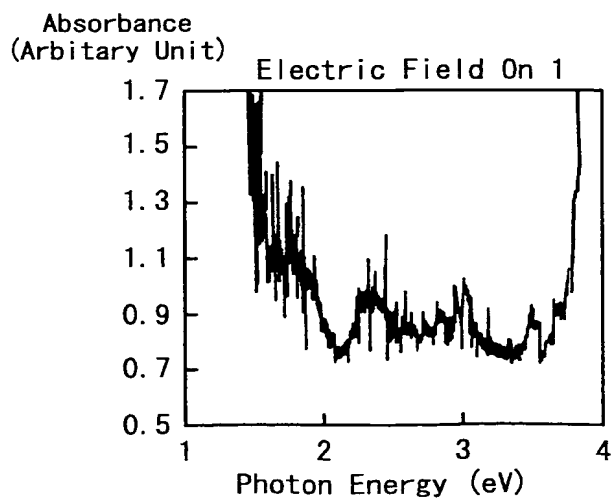
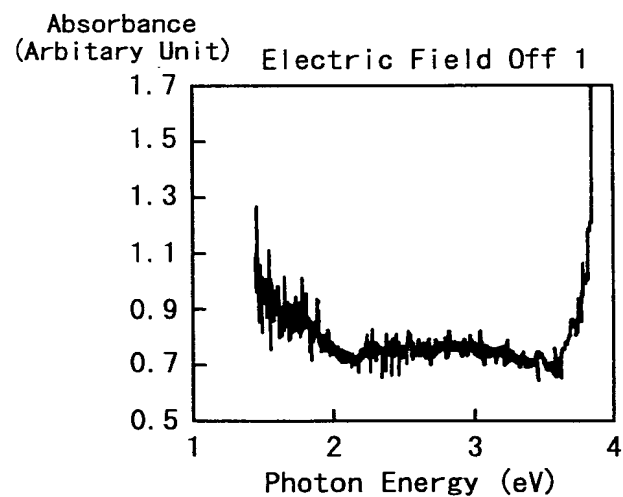
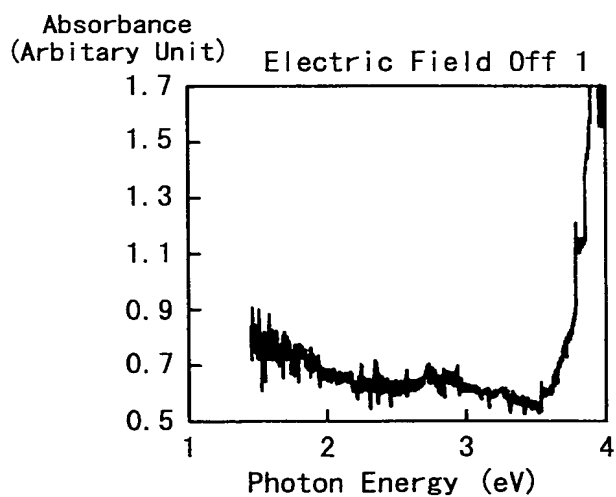
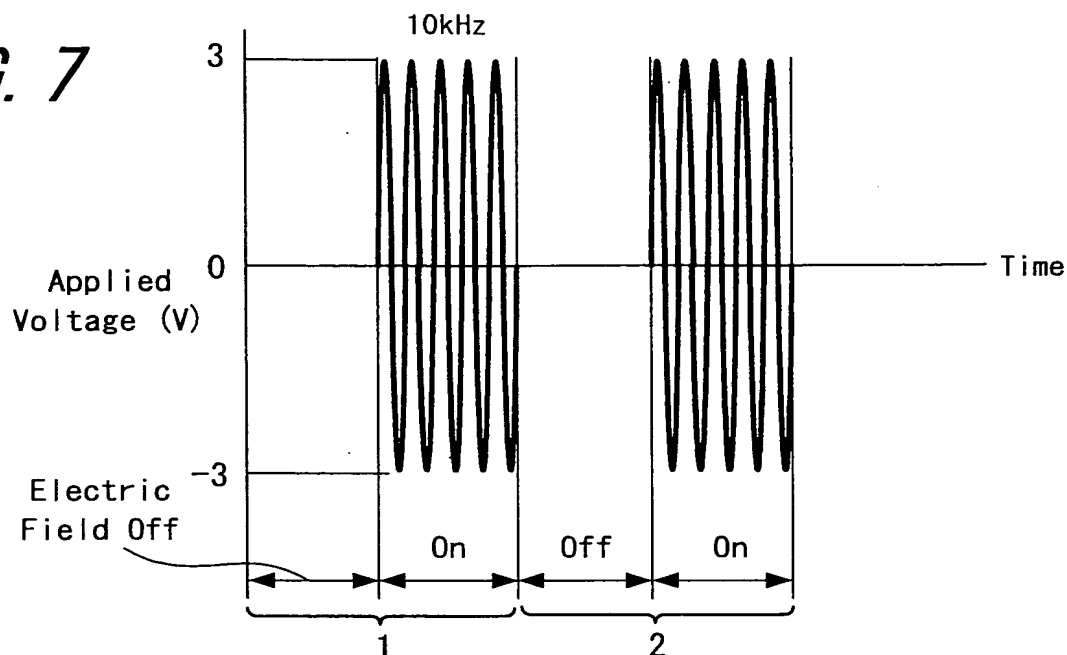
FIG. 7

FIG. 8

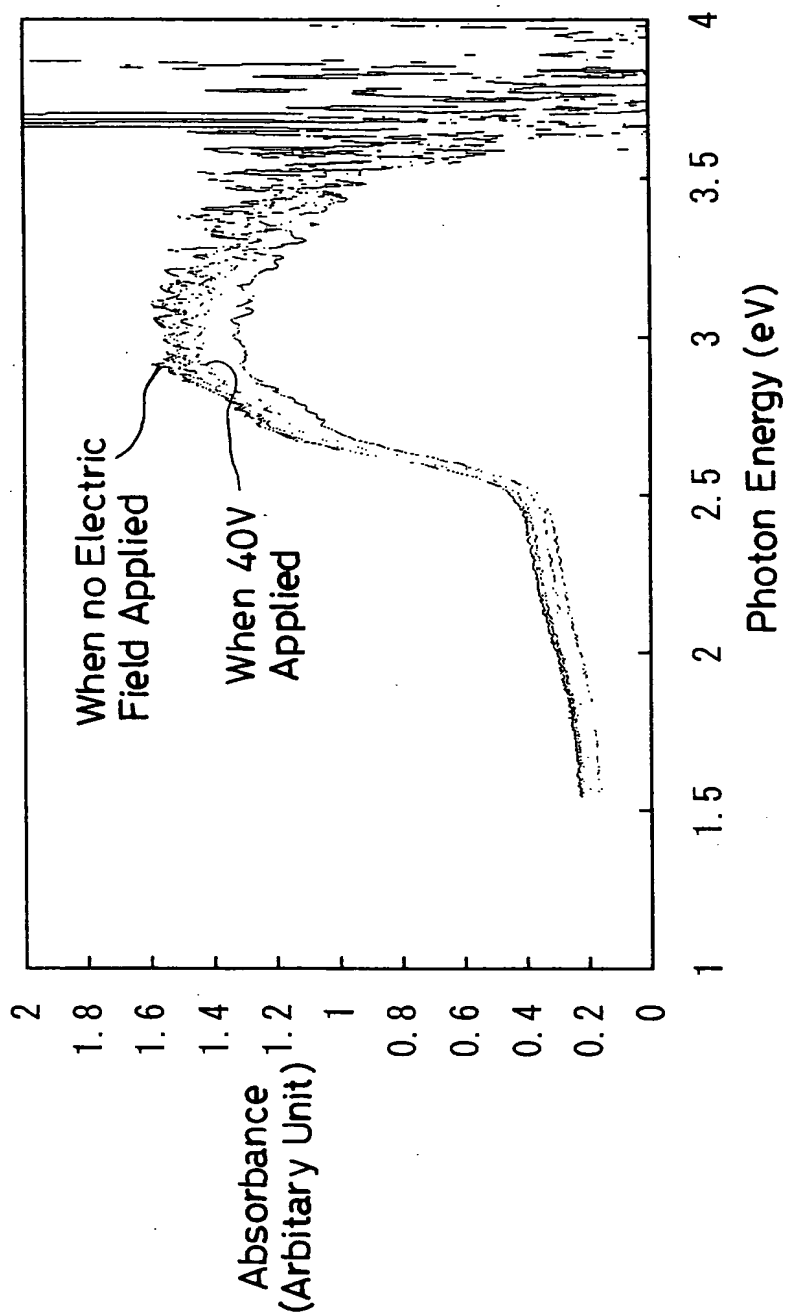


FIG. 9

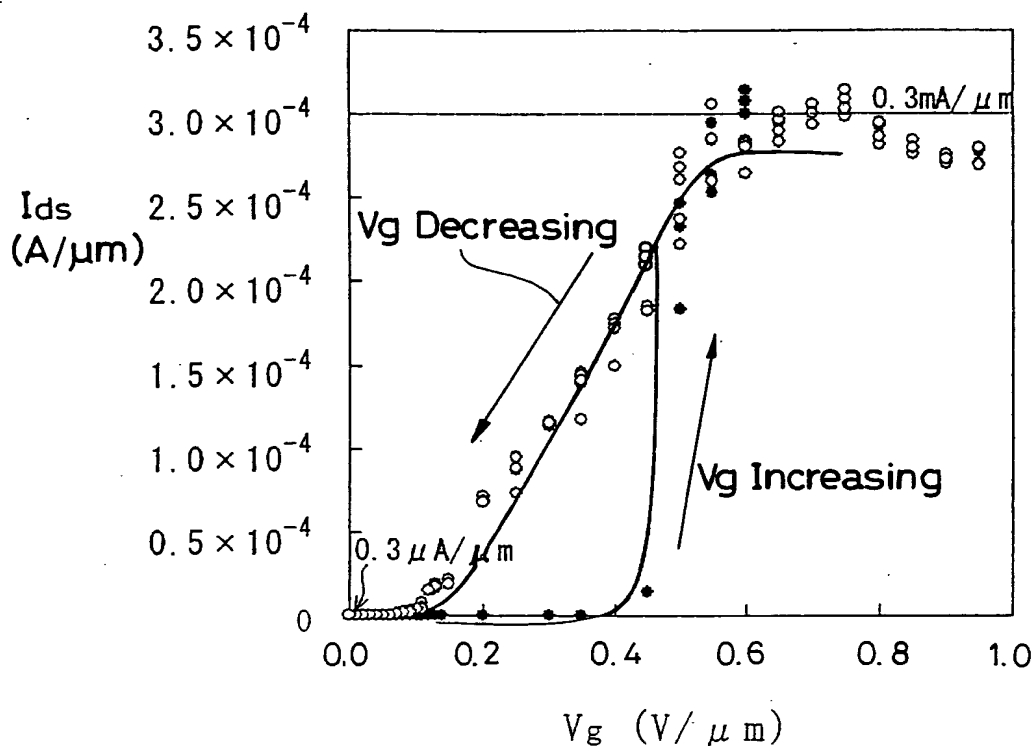


FIG. 10

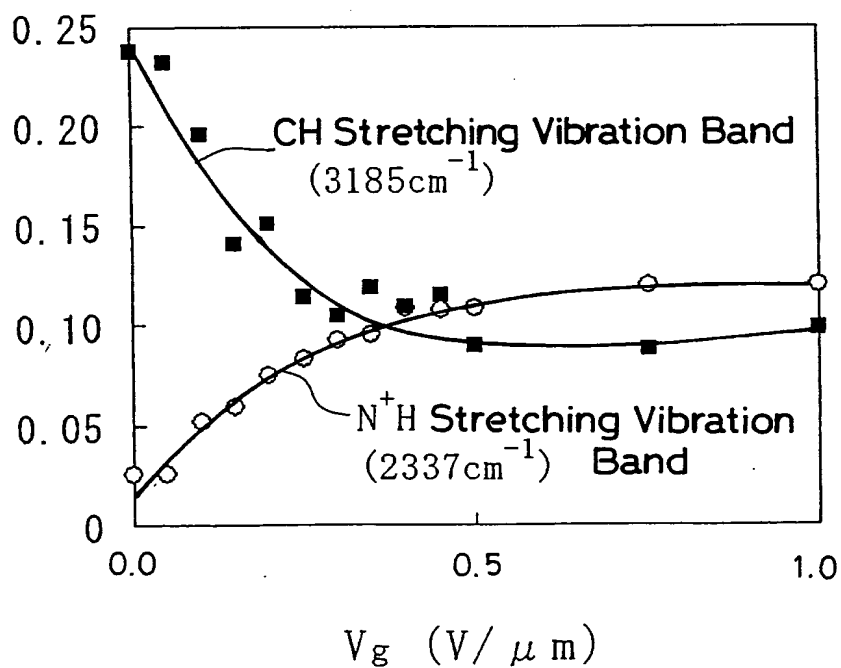


FIG. 11A

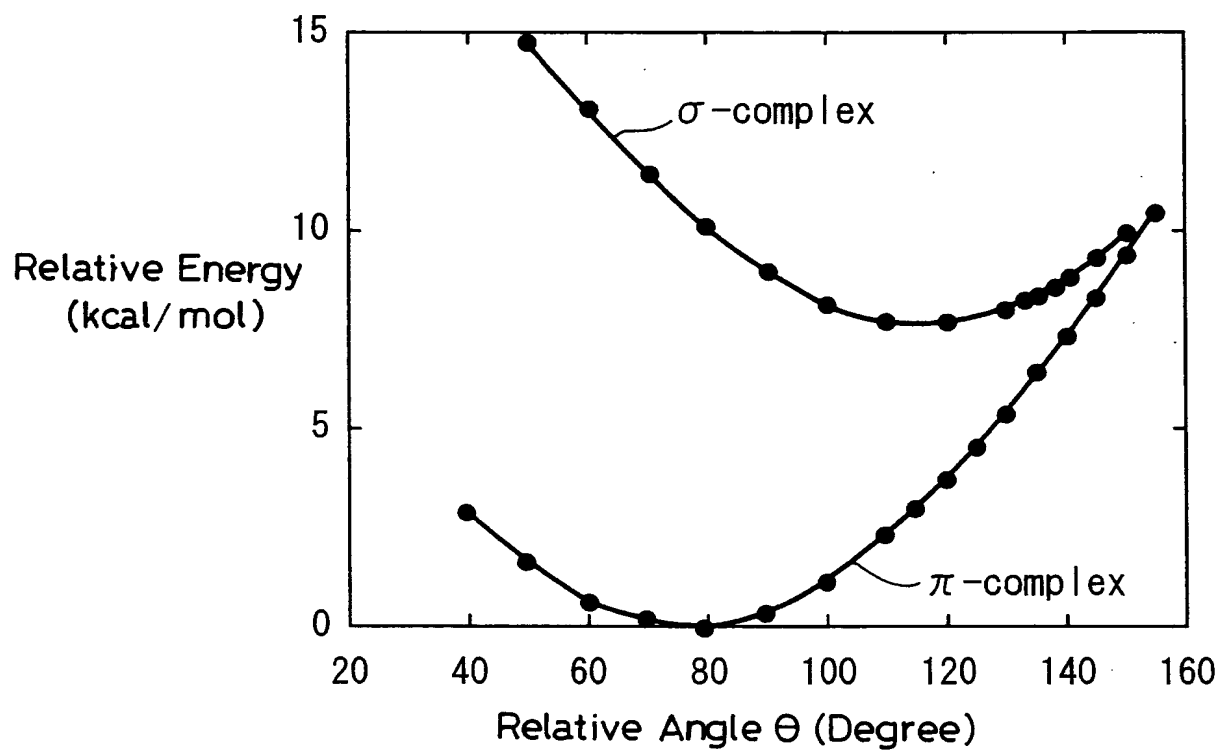


FIG. 11B

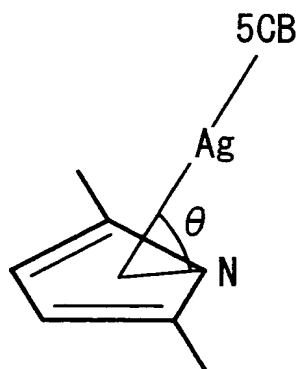
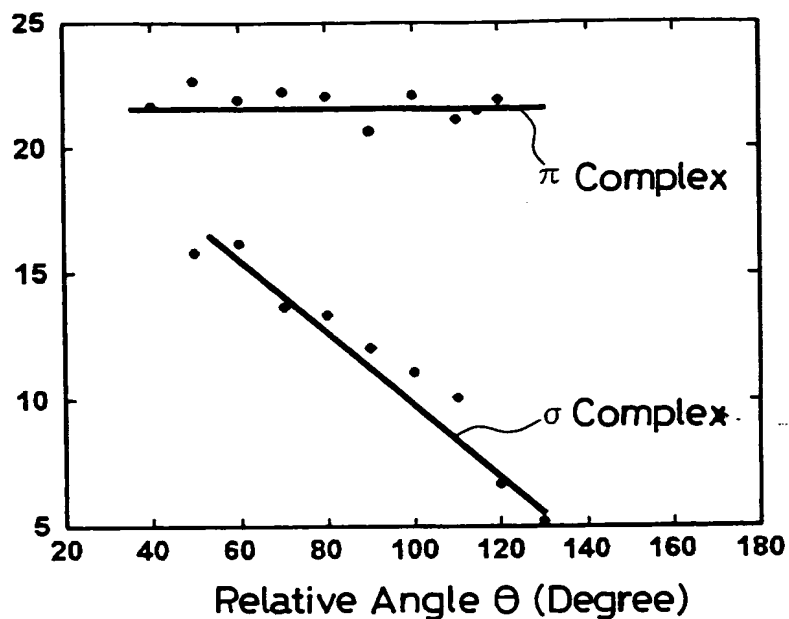
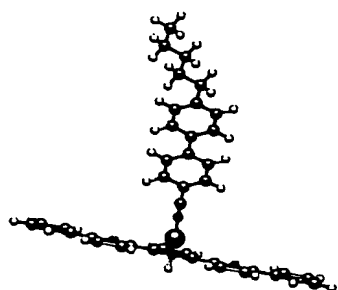


FIG. 12

Dihedral Angle α
(Degree) Between
Pyrrole Rings in
Polypyrrole

**FIG. 13A**

$\theta = 130^\circ$, $\alpha = 5^\circ$
Low Resistance State

**FIG. 13B**

$\theta = 50^\circ$, $\alpha = 17^\circ$
High Resistance State

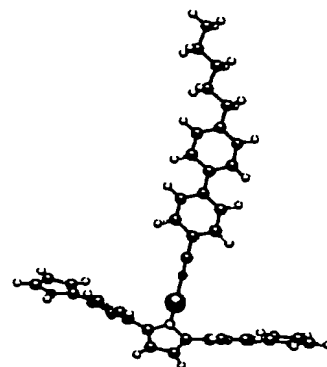


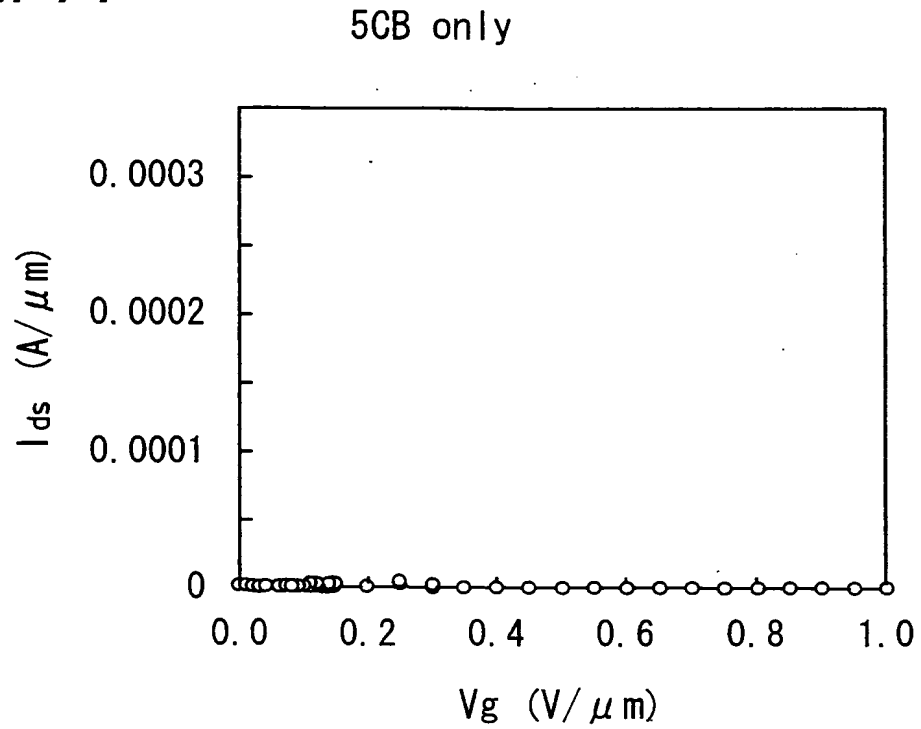
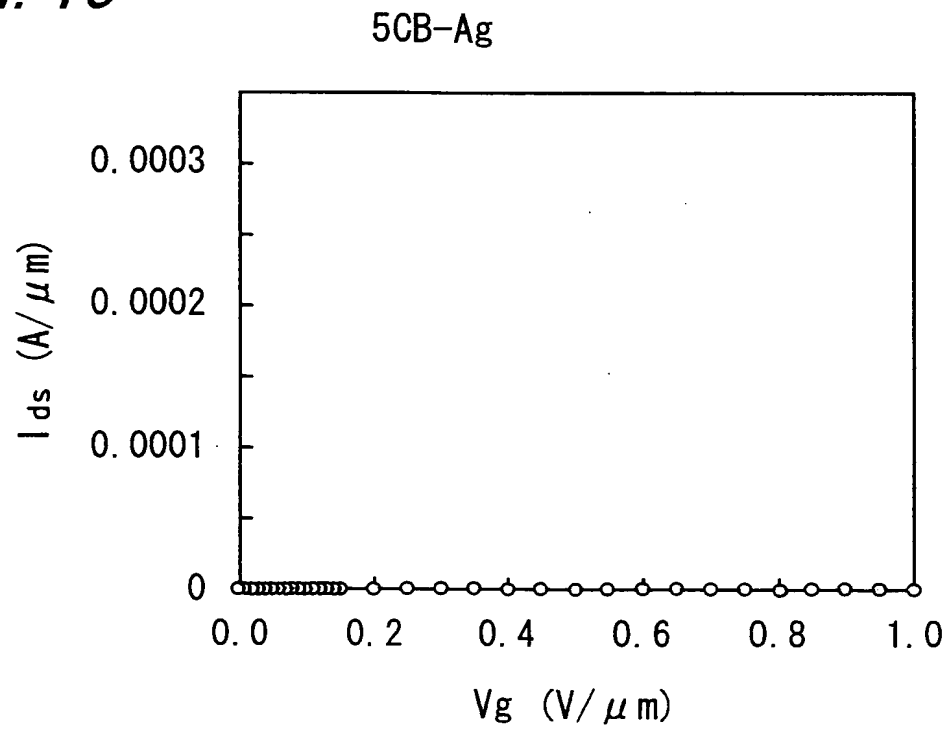
FIG. 14**FIG. 15**

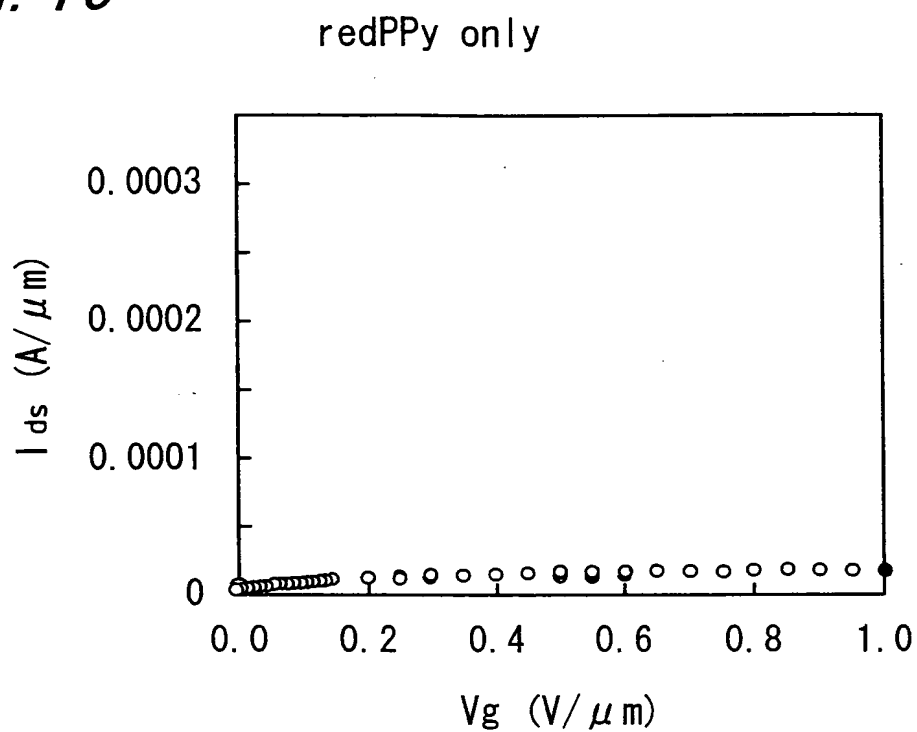
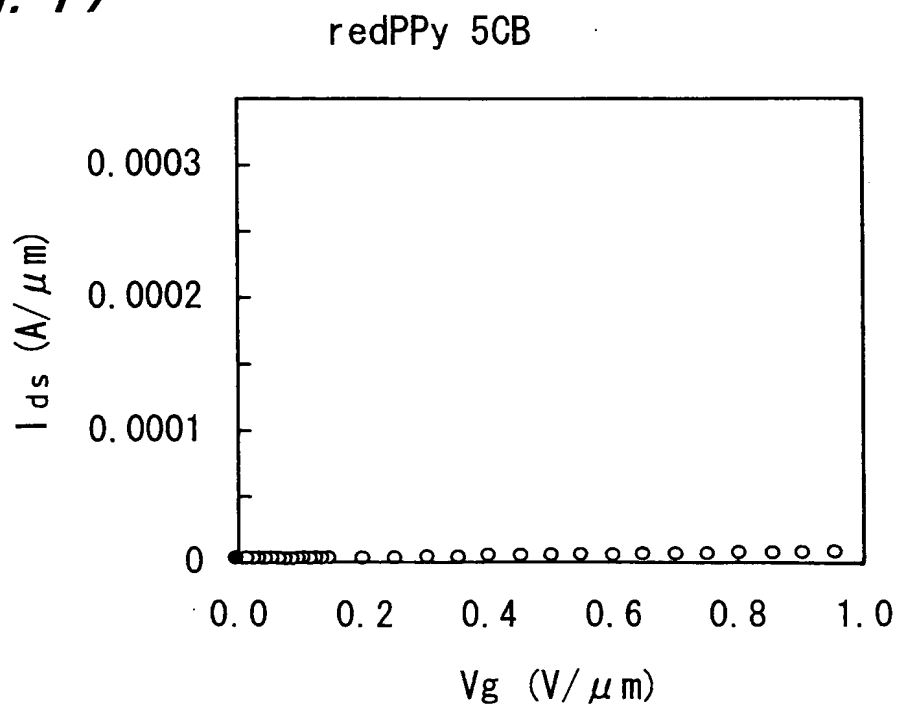
FIG. 16**FIG. 17**

FIG. 18

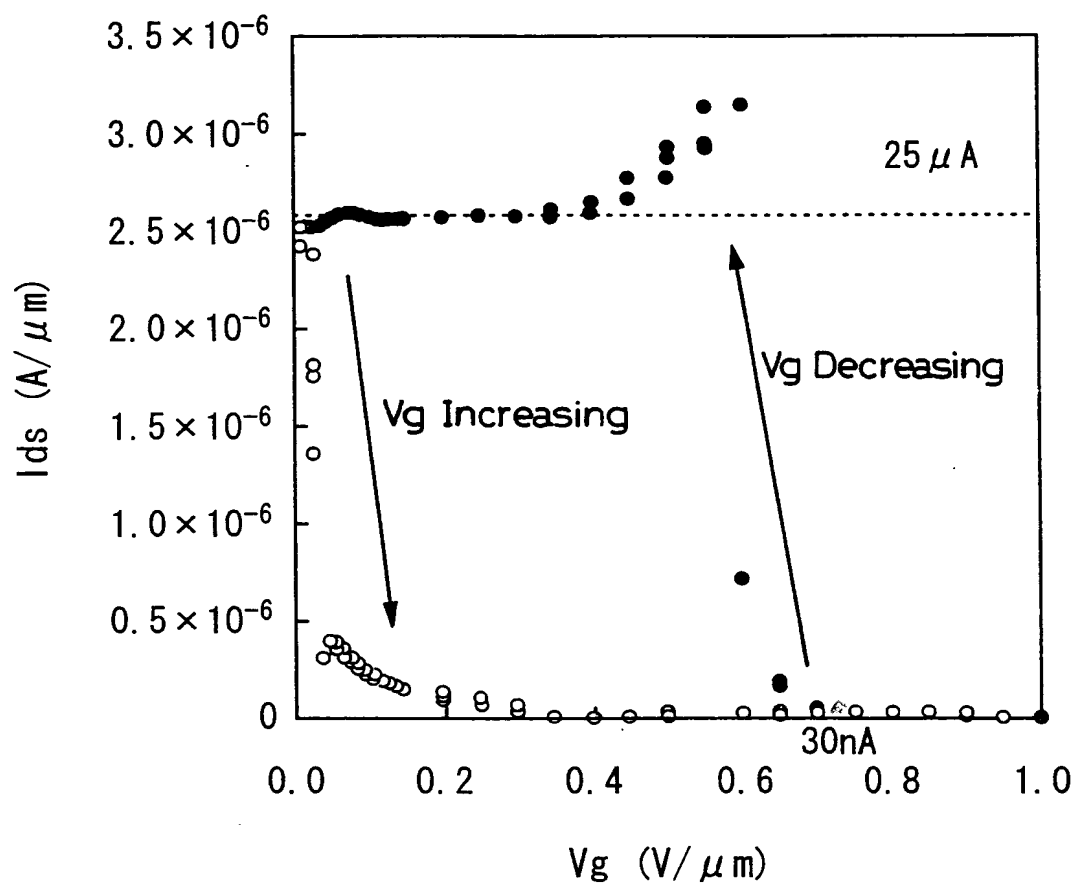


FIG. 19A

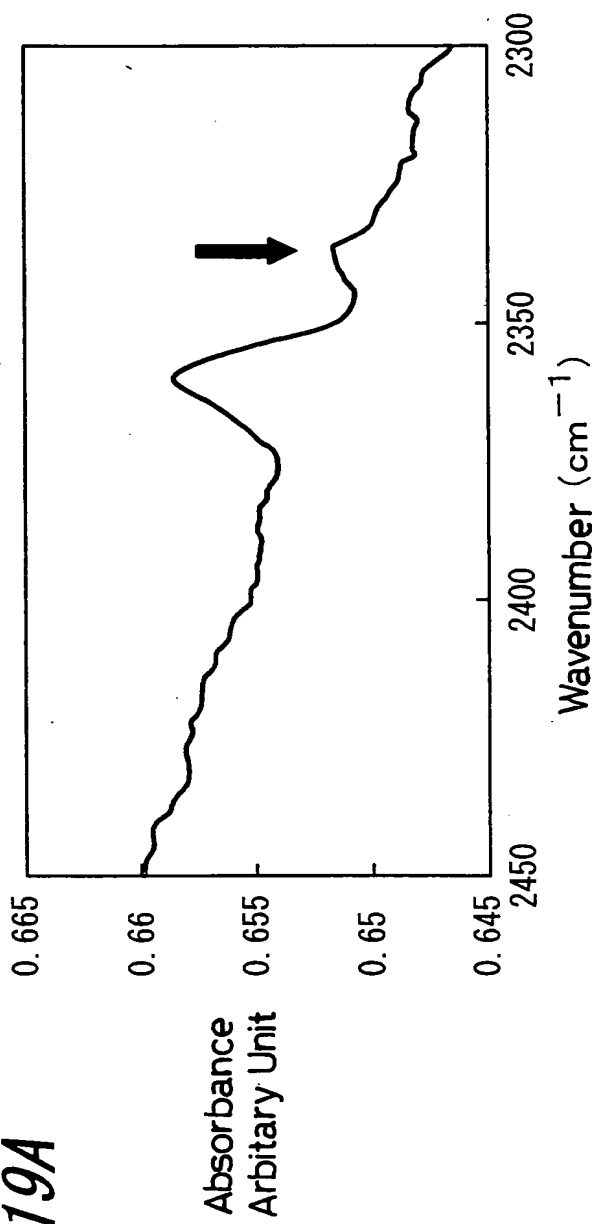
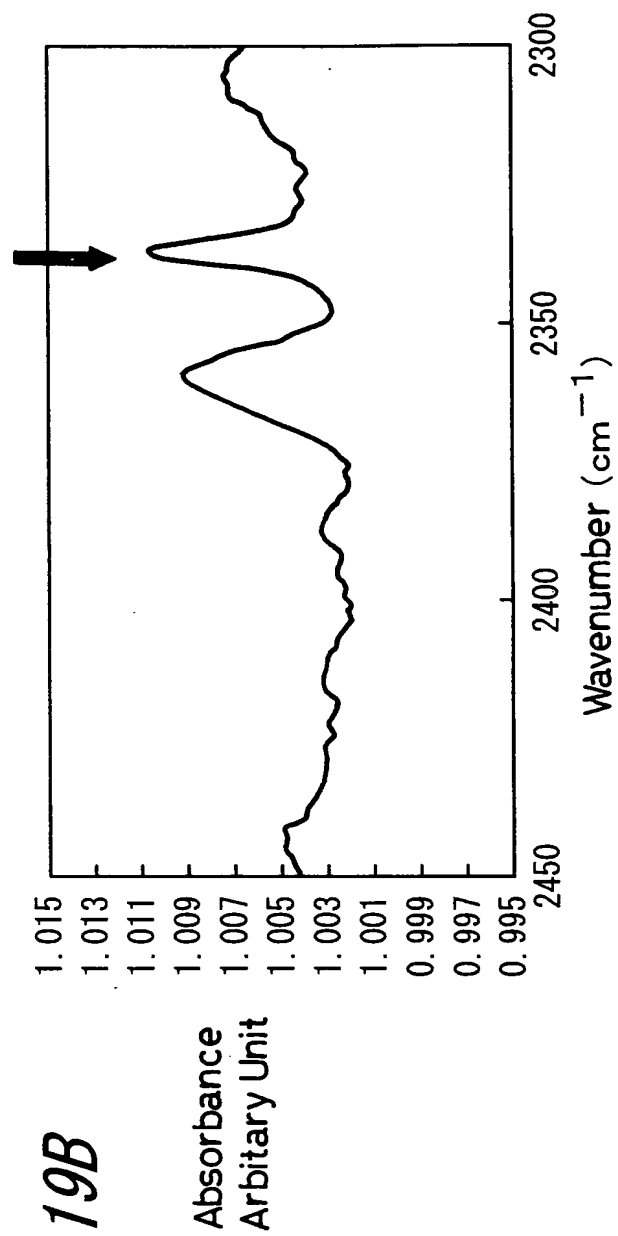


FIG. 19B



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